

Product datasheet for **RC234067**

CD162 (SELPLG) (NM_001206609) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD162 (SELPLG) (NM_001206609) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD162
Synonyms:	CD162; CLA; PSGL-1; PSGL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234067 representing NM_001206609
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGTGGGGCCAGTGGTCTAGAAGGAGATAAGATGGCTGGTGCCTCTGCAACTCCTCCTGT
 TGCTGATCCTACTGGGCCCTGGCAACAGCTTGACGCTGTGGGACACCTGGGCAGATGAAGCCGAGAAAGC
 CTTGGGTCCCCTGCTTGCCCGGGACCGGAGACAGGCCACCGAATATGAGTACCTAGATTATGATTTCTG
 CCAGAAACGGAGCCTCCAGAAATGCTGAGGAACAGCACTGACACCACTCCTCTGACTGGGCCTGGAACCC
 CTGAGTCTACCACTGTGGAGCCTGCTGCAAGGCGTTCTACTGGCCTGGATGCAGGAGGGGCAGTCACAGA
 GCTGACCACGGAGCTGGCAACATGGGGAACCTGTCCACGGATTACAGCAGCTATGGAGATACAGACCACT
 CAACCAGCAGCCACGGAGGCACAGACCACTCAACCAGTCCCACGGAGGCACAGACCACTCCACTGGCAG
 CCACAGAGGCACAGACAACCTGACTGACGGCCACGGAGGCACAGACCACTCCACTGGCAGCCACAGAGGC
 ACAGACCACTCCACCAGCAGCCACGGAAGCACAGACCACTCAACCACAGGCCTGGAGGCACAGACCACT
 GCACCAGCAGCCATGGAGGCACAGACCACTGCACCAGCAGCCATGGAAGCACAGACCACTCCACCAGCAG
 CCATGGAGGCACAGACCACTCAAACCACAGCCATGGAGGCACAGACCACTGCACCAGAAGCCACGGAGGC
 ACAGACCACTCAACCACAGCCACGGAGGCACAGACCACTCCACTGGCAGCCATGGAGGCCTGTCCACA
 GAACCCAGTGCCACAGAGGCCCTGTCCATGGAACCTACTACCAAAAGAGGTCTGTTTCATACCCTTTTCTG
 TGTCTCTGTTACTACAAGGGCATTCCCATGGCAGCCAGCAATTTGTCCGTCACCTACCCAGTGGGGGC
 CCCAGACCACATCTGTGAAGCAGTGCCTGCTGGCCATCCTAATCTTGGCGTGGTGGCCACTATCTTC
 TTCGTGTGCACTGTGGTCTGGCGGTCCGCCTCTCCGCAAGGGCCACATGTACCCCGTGCCTAATTACT
 CCCCCACCGAGATGGTCTGCATCTCATCCCTGTTGCCTGATGGGGGTGAGGGGCCCTCTGCCACAGCCAA
 TGGGGCCCTGTCCAAGGCCAAGAGCCCGGGCCTGACGCCAGAGCCAGGGAGGACCGTGAAGGGGATGAC
 CTCACCCTGCACAGCTTCTCCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234067 representing NM_001206609
 Red=Cloning site Green=Tags(s)

MAVGASGLEGDKMAGAMPLQLLLLLILLGPGNSLQLWDTWADEAEKALGPLLARDRRQATEYEYLDYDFL
 PETEPEMLRNSTDTPPLTGPSTPESTTVEPAARRSTGLDAGGAVTELTTELANMGNLSTDSAAMEIQT
 QPAATEAQTTPVPTEAQTTPLAATEAQTTRLTATEAQTTPLAATEAQTTPPAATEAQTTPGTEAQT
 APAAMEAQTTPAAMEAQTTPAAMEAQTTPAAMEAQTTPAAMEAQTTPAATEAQTTPAAMEALST
 EPSATEALSMEPTTKRGLFIPFSVSSVTHKGIPMAASNLSVNYYPVGPADHISVKQCLLAILILALVATIF
 FVCTVVLAVRLSRKGHMYPVRNYSPTMVCISSLLPDGGEGPSATANGGLSKAKSPGLTPEPREDREGDD
 LTLHSFLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001206609

ORF Size: 1284 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001206609.2](#)

RefSeq Size: 2638 bp

RefSeq ORF: 1287 bp

Locus ID: 6404

UniProt ID: [Q14242](#)

Cytogenetics: 12q24.11

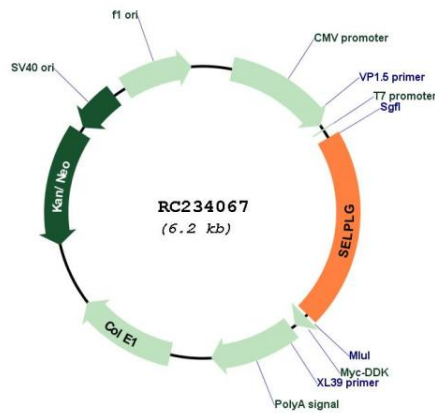
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs)

MW: 45.1 kDa

Gene Summary: This gene encodes a glycoprotein that functions as a high affinity counter-receptor for the cell adhesion molecules P-, E- and L- selectin expressed on myeloid cells and stimulated T lymphocytes. As such, this protein plays a critical role in leukocyte trafficking during inflammation by tethering of leukocytes to activated platelets or endothelia expressing selectins. This protein requires two post-translational modifications, tyrosine sulfation and the addition of the sialyl Lewis x tetrasaccharide (sLex) to its O-linked glycans, for its high-affinity binding activity. Aberrant expression of this gene and polymorphisms in this gene are associated with defects in the innate and adaptive immune response. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Apr 2011]

Product images:



Circular map for RC234067